



Apollo VIII Revamped to Omit Lunar Module Operations

Apollo Program Director Samuel Phillips last week announced that lunar module operations will be dropped from Apollo VIII — the second manned Apollo mission and the first manned mission using the Saturn V launch vehicle.

Speaking at a Washington press conference, Phillips said, "We have decided to fly the next Saturn V—No. 503—with the command and service module only and not to carry the lunar module on that flight. This decision enables us to move forward in employing the Apollo/Saturn V space system while we work out the problems that are currently delaying the checkout of lunar module 3 that we had intended to fly on 503."

Originally scheduled to be flown on Apollo VIII for manned checkout in earth orbit, LM-3 has been delayed in pre-flight checkout and instead will be flown aboard the third manned Apollo mission (A/S-504) with command and service modules Nos. 104.

The decision to slip the manned lunar module flight was based upon preliminary studies that showed that many Apollo program objectives could be met through the alternate Apollo VIII command and service module mission. The final Apollo VIII mission plan will be firmed up after the first manned Apollo mission this fall—Apollo VII—which will complete flight qualification of the command and service modules.

Phillips held the door open for an Apollo VIII mission plan that could include deeper penetrations into space including lunar orbit, that are technically and operationally feasible with the Saturn V launch vehicle, but

again emphasized the importance of Apollo VII mission results.

Phillips said that one important advantage of flying Apollo VIII this year is the opportunity for earlier experience in the operation of the Saturn V and command and service modules than otherwise could be gained.

"We set out in June," said Phillips, "to achieve flight readiness of spacecraft 103 and LM-3 in November on our working schedule and progressively have lost time in the LM checkout plan such that as of today, we are about six weeks behind in that plan. These checkout delays that have accumulated so far clearly delay us until at least January."

"We must expect additional delays or weeks of delay beyond that which I have now already described," continued Phillips.

"It is our view in the Apollo program that the probable flight readiness of LM-3 is perhaps in February, but it is in the February-March time period."

Phillips outlined for newsmen the basic concept of the Apollo VIII mission plan as one which will "go through the earth orbital checkout of the spacecraft and the upper portion of the launch vehicle which is still attached in checking out and determining the readiness for the relight of the S-IVB stage. At that point, we will separate the spacecraft from the launch vehicle. The launch vehicle will then go through the second burn maneuver of the upper stage and demonstrate the translunar burn which is the second burn of the S-IVB. The spacecraft will then fly an earth orbital mission which

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Astronaut Rescue Pact Goes to Senate for OK

The following is the text of a message from President Lyndon Johnson to the US Senate seeking the Senate's advice and consent to ratification of the Astronaut Assistance and Return Agreement between the United States and the Soviet Union:

To the Senate of the United States:

Today I ask the Senate to take another step toward stable peace on this threatened earth.

I am proud to transmit, for advice and consent to ratification, the Astronaut Assistance and Return Agreement.

This Agreement proves again that a divided world can and

must overcome its differences. In spirit and substance it embodies the three principles guiding America's quest for peace which I discussed last month at Glassboro.

First, peace must be earned. Peace must be built in patient steps as human trust grows to meet human need. At best, it is a slow, hard job. The Astronaut Agreement comes to the Senate after five long years of painstaking negotiation between the United States, the Soviet Union, and other members of the United Nations Outer Space Committee. It is a step—and an important step—in the hopeful journey which began in this decade with the Limited Test Ban Treaty. We marked a great milestone in this journey when we signed the Non-Proliferation Treaty last week in Moscow, London, and Washington. I hope and believe we can soon advance further on this road when we sit down to talk with the Russians about the limitation and reduction of offensive and defensive strategic weapons.

Second, the path to world peace is less difficult when the United States and the Soviet Union follow it together.

The Astronaut Agreement will serve all nations, those whose mercy may save lives as well as those whose sons will risk their lives to enrich man's knowledge of his universe. But in the last account this agreement was possible because the United States and the Soviet Union resolved to work with each other.

Third, lasting peace depends not only on healing the bitter

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RTCC Contract Modified for Apollo Missions

NASA has modified its contract with the IBM Corporation, Gaithersburg, Maryland, for the Real Time Computer Complex (RTCC), which will support Apollo-Lunar landing missions. The modification is valued at about \$45.5 million.

The modification definitizes a number of changes required to support the Apollo Program. Work under the contract will continue to be performed under a multiple-incentive arrangement covering cost, performance, schedule, and equipment management.

The contract, with IBM Federal System Division, Gaithersburg, Maryland, includes design, development, implementation, maintenance and operation of the RTCC through June 30, 1971.

Apollo VII in Checkout For October Launch

Preparations for the mid-October launch of Apollo VII continued at Kennedy Space Center Launch Complex 34 as Apollo spacecraft 101 this week was electrically mated to its Saturn IB launch vehicle. The command and service modules, launch escape tower and spacecraft/lunar module adapter had been mechanically mated to the launch vehicle on August 9.

Spacecraft integrated systems tests were run last week and an interface test with the Mission Control Center at MSC was run August 21. During the same period, installation and checkout

of the launch vehicle flight programmer was completed and an interface test run between the programmer and MCC was run.

The Apollo VII flight crew, meanwhile, continued to bone up on mission operations in the command module simulator at Kennedy Space Center.

Additional spacecraft structural testing supporting Apollo VII was run Tuesday at MSC as airframe 099 was test dropped at the full-scale land and water impact test facility. The unmanned spacecraft was dropped with a 20-foot-per-second vertical velocity and zero horizontal velocity to measure stress patterns on the aft heatshield. The test is one of a series of impact tests begun in March in support of Apollo VII.

Prelaunch preparation and testing for Apollo VIII also were underway at KSC as command module 103 last week completed reaction control system leak and functional tests. The command module later was moved to the Manned Spacecraft Operations Building altitude chamber where it was mated to the service module.

All three stages and the instrument unit of the Apollo VIII Saturn V launch vehicle (A/S 503) are mated in High Bay 1 of the KSC Vehicle Assembly Building. A spacecraft facilities verification vehicle is mated atop the stack for test purposes. Mobile launcher swing arm compatibility tests and launch vehicle electrical systems tests were run last week.

Keeping the Books Straight



LIBRARIANS—Carol Paley and Sheryl Sayles place returned books on the shelves of the MSC Technical Library as part of their assignment as library assistants. Both girls are students at Worthing high school and are among 89 local-area students in the 16-21 age bracket hired during the Houston Job Fair.

Roundup Swap-Shop

(Deadline for classified ads is the Friday preceding Roundup publication date. Ads received after the deadline will be run in the next following issue. Send ads in writing to Roundup Editor, AP3. Ads will not be repeated unless requested. Use name and home telephone number.)

FOR SALE/RENT—REAL ESTATE

8-month old French Provincial in Baybrook: 4 bedrooms, separate dining room and living room, large family room w/fireplace, kitchen and dinette, utility room and separate two-car garage with fenced backyard, refrigerator, washer, dryer, and miscellaneous furniture included, central air/heat, located on court, away from main traffic and apartments. Cost \$25,000 equity and assumption. Dave Peterson, GR 4-3681 after 5.

Rent by day or week, 1 bedroom furnished beach house, all electric kitchen, at Bolivar. Has boat dock in front. Evelyn Hlvar, HU 3-7626 (no home phone).

El Lago—407 Pebblebrook Dr., wooded lot, 3-2 1/2-2, functional storage, screened porch, Howard swimming pool, beamed-ceiling family room, fireplace, beautifully draped, brick and white aluminum siding, many other extras. Owner day or night GR 4-2741 or 877-1051. Immediate occupancy.

4-bdr, 1 3/4-bath, 2-car garage, family room, electric kitchen, central heat/air, carpets, \$21,000—\$2,000 down, 6 per cent interest, take over payments. 1902 Sunset Court North, League City. R. Langnau, 932-3187.

Brick, 3-1-1, central air & heat, Meadowcreek Village. 2 blks from Catholic church and school, also convenient to public schools. Assume 4 3/4% GI loan plus equity or owner will arrange for new financing, \$13,750. Myra Shimek, 946-5870 after 5.

212 acres near Center, Texas. \$175/acre, approx. 1/2 cleared, 25-acre coastal hay meadow, old house, 3 stock tanks, presently carrying 50 mother cows. G. Griffin, 591-3512.

Clear Lake City 4-2-2, all brick, utility room, large den, one bedroom newly paneled for use as study or workroom, hall and master bedroom carpeted 4 months ago, large fenced back yard. Equity \$3950 and assume 6% loan at \$163/mo. A. P. Loeb, 488-2190.

2-bdr, 1 1/2-bath, 2 airconditioners, central heat, 1745 sq. ft., 1 blk grade school, 25 min MSC. \$1000 equity, assume approx \$7500 balance. Scogin, MI 3-7676.

Alvin, Texas: corner lot 160 x 160, back yard on Hillcrest Golf Course, curbed and all utilities. John Thiem, 944-4545.

Fairmont Park, 3 bedrooms, 2 baths, 2-car attached garage, full brick, air/heat, roomy eat-in kitchen with much wood cabinetry and all built-ins, panelled den, living room, ceramic tile baths, clay tile foyer, hardwood floors, all venetian blinds. Mature trees and shrubs, fenced backyard, high ground. 20 min. to NASA, 10 to shopping, walking distance to school, corner store, and free pool. Community services include back yard garbage pickup, police patrol, etc. Total price \$16000. \$3400 for equity and assume balance of 5 1/4% FHA loan. Payments \$131 a month. Frank Miceli, GR 1-0723.

1 3/8 acre lot (240' x 250'), residential area just out of Pearland city limits. 200 yards of sand were spread and 30 pine seedlings planted 3 years ago. Sacrificing for \$4495. F. Plauchi, GR 4-2660.

Lakeside, 2-bdrm cottage, block from south shore of Clear Lake, \$9500. C. Perrine, 877-2165.

Westbury, 4-2-2 brick, central air and heat. 2200 sq. ft. detached garage. Fenced yard. Near all schools, easy access to I. 610. \$8000 for equity, payments \$176 per month, or refinance. Total price \$23,000. B. Crabtree, 723-3529.

4-bedroom Colonial brick, 1 1/2 baths, den, central air and heat, two car garage. Located only 4 blocks off NASA 1 in Webster. VA or FHA new loan (no equity) \$21,500. Dan Heil, 932-3435/HU 8-4318.

Want to assume loan on 3-2-2 brick home in the NASA, Friendswood, League City area. Low equity. Will arrive in area September 26, 1968. Send info to Capt. James P. Pearce at P. O. Box 313, Ellington AFB, Texas, 77030, after September 20, 1968.

FOR SALE—AUTOS

54 Pontiac Tempest Custom 4-door sedan, 326 V-8, automatic, air-conditioning, new brakes, new shocks, 2 new tires, original owner, \$1,250, J. O. Covington, 487-3066.

66 Mustang convertible, V-8, four on floor, radio, air, excellent condition, \$1400. A. J. Collom, HU 2-7120.

68 Impala sports sedan, 5,000 miles, 327 engine, Turbo Hydramatic, full power, air, AM/FM. Paul Weitz, 591-3071.

68 Corvette (bronze) 3500 miles, hard & soft tops, AM/FM radio, 427, 3 dual carbs, firestone 215 radials, automatic transmission, power. Dick Gordon, 591-2389.

62 Corvair four-door sedan with auto-

matic. 40,000 miles. \$250 cash. D. W. Allen, HU 8-4024.

Hardtop (red) for 63-67 Corvette convertible. \$150. D. Bentley, 591-2718.

68 Firebird convertible, all power, air, 400 cu in., 7200 miles. Eugene A. Cernan, 591-2383.

1932 "B" model Ford body, frame, front end-no radiator, engine, or rear end. Has been burned \$75 or best offer. Kaigler, 877-4731.

65 Chev. El Camino, 327 cu. in., 300 hp, 4-speed, radio-heater and tach. \$1150. Don Heywood, Dickinson 534-3979.

57 Chev. 2-dr. sedan in mint condition—Custom built and balanced 301 cu. in. V8. Headers, Firestone Super Sports, radio-heater. Must see to appreciate, original owner \$895. Don Heywood, Dickinson 534-3979.

59 Cadillac Coupe DeVille, full power, good tires, runs well. \$300 or will trade for good 6-cyl stickshift pickup, any make. Scogin, MI 3-7676.

65 VW sedan, blue, radio, heater, WSW, all-vinyl interior, excellent condition. \$1050. Bill Cuculich, MI 9-5614.

68 Chevrolet station wagon, Impala, blue, all extras. Jim Irwin, 591-2640.

66 Pontiac GTO, original owner, 3-speed transmission, 25,000 miles, Alfred Lee, HU 8-0694 after 5.

66 Malibu, V-8, automatic, 2-dr. hardtop, air conditioned, 33,000 miles, excellent condition. \$1650. Cornett, 473-2581.

Chrysler 300, 1968 4DHT, auto, PW, PB, PSTR, auto A/C, special interior, vinyl top, \$5600 new. \$4,000. A. J. Zwolinski, HU 8-1436.

Loaded 1967 Honda 300 dream, red finish, electric starter. \$495. 1965 Chrysler 4 dr. Newport Town Sedan, exceptionally clean, all power & air, electric windows & seats, \$1,695. Phyllis Morton, 946-4752.

1926 Model T Ford, 4-dr sedan, two extra motors & extra parts. \$695. Phyllis Morton, 946-4752.

67 Toyota Corona 4-door white blue interior, air cond, radio, WW tires. Any reasonable Blue Book offer considered. Dutch, 591-4163.

1967 Impala super sports, gold/black vinyl, air, all power, 22,000 miles \$4450.00. E. A. Cernan, 591-2383.

62 Olds Starfire 2-door hardtop, air, power brakes/steering, \$795. Everitt Lang, MO 4-9503 after 5.

FOR SALE—MISCELLANEOUS

Mobile home for lease, furnished, air. Will relocate to your choice area, if on a long-term lease. Reasonable rent. Floyd A. Turner, RE 3-7667.

1964 Corvette Positraction rear axle assembly, complete w/traction bars, suspension assy, wheel hubs, brakes, etc. \$115. Also Corvette dashboard (all instruments except radio) \$45. Ron Hagood, WI 8-2870, Texas City.

Antique gold wrought-iron table with Champagne glass top and four matching chairs with apple green leather cushions. Original price \$200. Used 2 mo. Sell \$150. Evelyn Hlvar, HU 3-7626 (no home phone.)

1 pair \$18 dark men's dress slacks, waist size 44, length to fit 6' man. Claned once. Sell \$10. Evelyn Hlvar, HU 3-7626 (no home phone.)

Black female—miniature toy poodle—AKC, 30 champions, 5 generations, \$75. HU 2-7012 after 5.

Martin Busine Bb clarinet. Needs some work. \$40. Also, Getzen Bb bass clarinet, excellent condition. \$150. Both for \$175. One music stand throw in free. Linda Bennett, MI 9-3576 after 8 pm. Anytime Saturday & Sunday.

Toy Poodle puppy, white male, AKC, \$125. A. J. Collom, HU 2-7120.

Sailboat winch. Merriman, #1, bottom drive, with handle. Cost \$72 new. Sell one for \$35, two for \$60. Jay Legendre, 591-2976.

305 cc Honda, 1962 Superhawk, excellent condition. Best offer. E. Beck, 946-3702.

Luxurious full-head wig, champagne blonde, hand tied edge, adjustable cap, worn only twice, w/lease, sacrifice at \$50. J. W. Samouche, HU 8-0406.

IBM (elite) typewriter, \$75. La Verne Hansen, 488-3594 after 6.

Bedroom suite, \$40. Two vinyl chairs, \$15 each. \$60 takes all. J. Sutton, 932-3979.

21' South Coast sailboat, all fiberglass w/teak trim, new Seagull 4-hp motor, Dacron working sails, marine head, stainless-steel standing rigging, deck and cabin white and sky blue, topsides dark blue. Make offer, must sell. R. Sutton, 444-6400 or W. Platt, 877-4706.

Washer and dryer, like new, Kenmore Automatics. Both for \$110. J. Green, 877-3316 (Kemah).

Kenmore zig-zag sewing machine and Mediterranean cabinet, 27 1/2 years guarantee left on machine, does 60 decorative stitches automatically. Xclnt condition. Paid \$250, sell for \$150. Richard Stanton, 932-2982.

10' x 55' Frontier trailer (1965 model), all electric, furnished in Early American. 3-bedroom, 1 1/2 bath, 20x50' patio located on 1/2-acre lot in League City. Priced to sell. Charlie Vernon, 932-4668.

Revere 8mm turret movie camera with top-quality regular, wide angle, and telephoto lenses. Revere 8mm model P-85 projector and spare bulbs. Total cost new was \$275. Camera and projector are like new and have had little use. Sell both for total of \$50. Airequipt 35mm projector with magazines, all in new condition \$19.50. German autofocus 35mm enlarger, misc. darkroom accessories. \$25. Hoffman, MI 3-4624.

Flying Junior #2248 sailboat. Sloop rig with spinnaker gear. Dacron sails, fully equipped with all racing accessories. Galvanized trailer. \$1,075. Hoffman, MI 3-4624.

Smith-Corona electric typewriter—excellent condition. Original price \$150, sell for \$100. Margie Charles, RE 4-6321 after 5.

Sear motor bike, runs great, licensed, \$35. Ten-Speed Schwinn sports bicycle, excellent condition, \$35. D. H. Johnson, 591-3541.

Used boats—5 ea. from 8 to 12 ft. \$10. to \$50. Steve Heywood, Dickinson 534-3979.

Air conditioning compressor for Chev. like new \$20. Don Heywood, Dickinson, 534-3979.

Ham band receiver, tunes 80, 40, 20, 49, 31, 25, 19, 16 meter bands. Can be modified to tune 15 and 10 meters. Dial calibrated every 1 kc. Goodrick, 522-9958.

Custom-made sofa, beige color, 90" long, damask texture, is fully skirted, self decked, three foam cushions that are reversible. Like new and perfect condition. \$150. Jack Cohen, HU 8-3171.

Model 99 Savage, .300 Sav. cartridge. William's receiver sight with twilight-hunting aperture, micrometer adjustments, sling and detachable swivels, fiberglass bedded barrel and action, hand-finished walnut stock with recoil pad and Schnable forearm, re-loading equipment and components, NRA excellent. \$138 Paul Hurt, HU 2-7837.

Instrument ground school instruction by Gold Seal CIFI, AGI, starting 3 September. Air conditioned class room, approved school. Ken Jones, GR 1-3760.

17-foot Glastron with 50-Hp Evinrude. Gator trailer, excellent condition. \$995. J. J. Willis, 944-3647.

Leica M-3 with 50mm T3.5 Elmar lens, 105mm T2.5 Nikor lens, bracketed for Leica 135 frame, \$250. Willie R. Lee, 932-3876.

9" South Bend lathe, with quick-change gear box, 12-speeds. Includes motor, reversing switch, 3-jaw chuck, tool post, tool holders and sturdy metal bench, \$475. A. S. Giralda, WA 1-7212.

Moving: GE double-oven range, like new, \$65. Easy washer, used little \$65. RCA remote control TV, \$45. Glider and heavy patio chairs, grass rugs, fireplace screen. GE 2-door refrigerator, \$75. Overstuffed chair. PA 3-0928 Curt Vetter.

Rent a 1967 Cessna Skyhawk for \$13 per hour straight or \$12 per hour by the block. Aircraft based Clover Field. N. Tilton, GR 9-1176.

16-Hp Scott Atwater motor, ideal fishing motor. R. D. Newlin, HU 7-2121.

Pair of 14" mag wheels. J. A. Caudel, 488-0296.

Golf shoes—men's size 8 1/2, brown "hush-puppy" style, worn only twice. Cost \$15, sell \$10. Bill Stagg, HU 7-3086.

17' fiberglass sailboat, dacron sails, galvanized trailer, excellent condition. New cost \$2400, will sell for \$1575. Ted Sampsel, GR 1-0172.

Beagle puppies: male, \$25, female, \$20, N. J. Walker, HU 8-4021.

Blonde and white parti-colored male Pekingese, 4 years old, AKC registered, 26 champions in 5 generations. Best offer. Call anytime. E. Hillje, MI 9-2065.

Sunfish sailboat \$425 or swap for Dolphin Sr. Record changer, \$5. 946-7193.

Stud service. Miniature black poodle. AKC registered. Pick of litter. Morewitz, 723-3411.

14 1/2-foot MFG fiberglass boat with 40-Hp motor and galvanized trailer, fully equipped for skiing and fishing, turn-around seats, convertible top, high transom for rough water. E. Schnitzer, 723-2179.

Cabin Craft carpet 9 x 12 with pad Du-

Pont 501 continuous filament nylon. Subdued multi-colored twist. Original value \$175. In excellent condition \$75. John Welch, 649-2601.

Beagle puppies, AKC reg. black-tan-white, females, \$30. Males, \$35. D. Kendrick, 966-1280.

1965 Honda 150cc., 8400 miles, good condition, \$285. Lee Moore, HU 3-3576 (no home phone).

Hemisfair tickets—2 bonus books with 2 gate admissions, \$9 each. Marian Yancey, 946-7887.

Replogle True to Life 12" dia. globe, with record, like new—\$10. Year old trundle bed 39" x 80" innerspring mattresses, frame needs repairs—complete set \$40. Hoscale Eledon Racing Set, two car, good working order—\$10. Baseball pitch back, good condition—\$5. Verby Balinas, 946-3907 after 5.

Trundle bed with bookcase headboard, 2 springs, 2 mattresses, all in good condition, \$35. John Eggleston, 877-1261.

Wurlitzer organ, model 1400, excellent condition, Clarke Hackler, 471-0841.

Plywood boat with big-wheel trailer, 25-horsepower motor, life jackets, bait well and dry box, seats, steering wheel and windshield. \$350. See at 2009 Rimrock Drive, Kemah, W. E. Mayes, 877-2976.

Hospital bed and new plasticized mattress \$100 or will sell separately. New Bassett triple dresser with mirror, \$75. Chuck Bailey, 944-3871.

Girl's 26-in bike with baskets and lock. Wang, HU 8-2212.

Zenith Color TV, \$175. Billy Campbell, 488-3635.

1967 Marine-Camper. Ideal for the fisherman/camper. Combination 12 ft. fiberglass boat and 4-person camper. Like new, used 4 times. Originally listed for \$995, will sacrifice for \$595. L. R. Hamilton, 471-0710 after 5.

Sears 4 h.p. roto-tiller with all attachments. Like new, used less than 20 hrs. Originally cost \$150, will sacrifice for \$95. Hamilton, 471-0710 after 5.

Sears 2 1/2 h.p. reel type mower. Like new, used less than 15 hrs. Originally cost \$89, will sacrifice for \$49.

Camping equipment. In like-new condition. Used 4 times. All Coleman equipment. 3-burner stove and stand \$19. 2-mantle lantern \$10. 1-mantle lantern \$7.50, fuel-4 gallons \$4, 5000 BTU heater \$15, metal folding table \$3, 10' x 10' canopy \$10. Hamilton, 471-0710 after 5.

WANTED

Want to join or start carpool from Baytown, 8:30-5:00 Norman R. Schulz, ext. 2901.

Wicker dining table and 4 wicker chairs with arms and backs. Good condition. Sandy Cooper, 944-9026.

One copy of the December 1965 special issue of the "Proceedings of the IEEE" for use in office. Jim Bates, 3816 (no home phone).

Rider to share expenses and driving to Atlanta, Georgia, leave Houston September 1, 1968. Dave Blue, HU 7-3542.

Ride wanted from Moody St. (League City) to Bldg. 7-MS-C, 7:30-4. Ruthine Hennessy, 932-4360.

Car pooler to join existing 4-man car pool from Meyerland area. Drive one day per week, 8:30-5:00 shift. S. Jacobs PR 4-9924.

A fifth member for car pool from Gulfgate to MSC 8 to 4:30, Jonny Ferguson, 747-0403.

Judokas Open Fall Season

The Gulf Coast Judo League September 7 will go to the mat on their first match of the fall session at the East End YMCA at 1 pm. Matches include men's and women's *kata* and children's competition.

The NASA Judo Club works out each Thursday from 6 to 8:30 pm in the Harris County Park Building and each Tuesday evening at the Clear Lake City Recreation Center. The Club plans to conduct a class in women's self defense sometime in the fall.

Would-be judokas and women interested in the self defense class should call Club president "Dutch" von Ehrenfried at 4667.

EAA Sells Tickets For Ice Capades

The MSC Employee Activities Association September 5 will start sales of 1968 Ice Capades tickets. Sales end September 16.

EAA discounts are \$1 for each ticket bought for a specific date. Order envelopes are being distributed to all employees which include instructions for placing ticket orders.

Jerry Haptonstall at 3803 will answer any questions on Ice Capades tickets.

Philatelists Meet

The MSC Stamp Club September 5 will hold its first meeting at 5 pm in Room 108 Bldg 13 for a buy, sell, swap and talk session.

Interested in joining a car pool from Clear Lake City area to and from Bldg. 7-7a, 7:30-4. Jo Ann Brown, ext. 5554 or 488-0649.

1966 or 1967 station wagon in good condition, prefer Ford Fairlane or Olds Vista Cruiser. Dutch, 591-4163.

If you are going to the San Francisco area in September or October, I would appreciate your help in transporting a few small items to Palo Alto. Will share gasoline expenses. Wang, HU 8-2212.

To help in my reconstructing events of the accident, it would be most helpful if persons witnessing or helping out at the accident on Red Bluff Road, August 20, at about 4 p.m. in which my daughter, Susan, received extensive injuries requiring plastic surgery, would contact me at ext. 3121 or at 877-4198. Dr. John Dornbach.

LOST/FOUND

Lost: Pair of brown-frame glasses in Bldg. 15, 17 or 7. Mary Jane Smith, 591-5010.

Lost: Black flight log book around NASA or Upper Bay Drive M. H. Von Ehrenfried, 591-4163.

Form 57 Laid to Rest; New Forms Save Time

Believe it or not, Standard Form 57, "Application for Federal Employment," has been separated. It was, of course, an honorable discharge.

Its replacement is Form 170—a compact 4x8-inch card that will provide all the basic information needed initially to consider an applicant—type of job wanted, availability, and education and work experience.

"The person who hates to fill out long, involved forms will find the SF-170 a refreshing change," said Civil Service Commission Chairman John W.

Macy, Jr., when he announced it. He added that the abbreviated application "responds to President Johnson's continuing call for improved service to the public."

It's a time saver. It can be filled out in a matter of minutes. This will be a boon to the Federal employee seeking a promotion via the transfer route. He can forget about long hours spent repeating his life history on a seemingly endless Form 57—one for every agency to which he plans to apply.

Opportunity Youths



COMPLETE TRAINING—Nine young people from New Mexico towns around the MSC White Sands Test Facility recently completed training courses provided by WSTF under the President's Youth Opportunity Campaign. The girls attended a secretarial techniques seminar and the boys attended a reliable hand-soldering course. Left to right are: Henry Parra, Las Cruces; Maria Rosella Flores, Hatch; Jesus Holguin, Las Cruces; Wanda Samples, Las Cruces; Norma Alvarez, Salem; Lupe Lozano, Las Cruces; Mary Sarta, Las Cruces; Robert Torres, Hatch; and Elma Gallegos, Las Cruces.

Astronaut Rescue Pact Awaits Senate OK

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conflicts of today, but also upon our skill and imagination in building for a brighter tomorrow.

This Agreement is a striking example of this principle. For it properly looks beyond the old divisions of history and ideology to recognize the challenges of common peril and the benefits of common action.

Only seven short years have passed since Alan Shepard and Yuri Gagarin made their pioneering flights into space. There have been moments of majestic triumph—when Virgil Grissom and John Young flew our first two-man flight aboard Gemini III in March 1965, and when Cosmonaut Leonov took the first walk in space the same month.

There have been moments of tragedy, as when the world mourned the deaths of Virgil Grissom, Edward White, Roger Chaffee and Vladimir Komarov. The new Astronaut Agreement would not have saved the lives of these extraordinary and brave men, for death came within their homelands. But we must spare no effort to ensure the safety of future space pioneers who may need help in other countries or on the high seas.

Accordingly, the Agreement provides that:

- Any party who learns that an accident or emergency involving a manned flight has occurred will immediately inform the launching authority.

- A party will immediately take all possible steps to rescue an astronaut who lands in its territory and render him all necessary assistance.

- A launching authority whose astronaut makes an unplanned landing on the territory of another party will assist in search and rescue operations when its assistance will help bring about a prompt rescue.

- A party with vessels on the high seas or otherwise in a position to do so will join in search and rescue operations for a downed astronaut.

- A party who has rescued a foreign astronaut will return him safely and promptly to the launching authority.

- A launching authority has the right to obtain the return of an object it has launched that has come down to Earth on the territory of another party.

These benefits alone recommend prompt ratification of the Astronaut Agreement. Our laws and treaties must always keep pace with our science. But the value of this Agreement goes beyond the protection it offers those who venture into space. It is also one more link in a growing chain of international cooperation which helps protect the peace of this planet.

The seven years of the Space Age began here on earth with the Berlin Wall, the harsh words at Vienna and the Cuban missile crisis. We have worked patiently and hard to improve the climate. As I said in 1966:

Our task is to achieve a reconciliation with the East—a shift from the narrow concept of coexistence to the broader vision of peaceful engagement.

I believe our successes have been impressive and hopeful: the Consular Convention —

signed in 1964 and ratified in 1968; the Civil Air Agreement — signed in 1966, with air service soon to begin; the Outer Space Treaty of 1967; the Non-Proliferation Treaty just signed on July 1; and the agreement to begin strategic weapons talks announced that day.

Many difficult and dangerous problems still lie unsolved before us. We must devote our energies to achieve a new advance toward peace. Humanity cannot wait where freedom from the shadow of nuclear war is concerned. We look with satisfaction to the achievement of the Non-Proliferation Treaty, and with anticipation to the forthcoming talks on the control of strategic weapons. Surely two nations who aspire to the stars can realize the common danger and act in the common interest here on earth.

The Astronaut Agreement is an action in the common interest. It helps man's reach for peace as well as his conquest of space. I earnestly hope the Senate will give its prompt advice and consent to ratification.

Lyndon B. Johnson,
The White House, July 15,
1968.

Apollo VIII Mission Drops LM/Operations

(Continued from page 1)

is an adaptation and in some sense an expansion of the Apollo VII mission."

Phillips said that the final selection of the Apollo VIII mission plan hinges upon the results of the October Apollo VII mission results and their evaluation and that a wide range of mission plans were under study.

"I want to clearly state," said Phillips, "that the Apollo VIII basic mission involves operations in low earth orbit. We believe we can fly that mission in December. While we are preparing for that basic mission, we are conducting studies and preparing plans for reasonable alternatives so that after Apollo VII flies, we can make the best deci-

sion as to whether or not to revise Apollo VIII mission objectives."

Saturn V first stage vertical oscillation "pogo effect" and upper stage propellant line rupture problems have been corrected and fixes checked out in extensive ground testing. The problems arose during the Apollo VI mission in April, the second flight of Saturn V.

"Since then," said Phillips, "we have reproduced very accurately and fixed the failure of the J-2 engine, which, as you recall, was manifested by the failure of two engines on the second stage and the failure of the J-2 engine on the third stage to ignite for its

Llewellyn Withdraws From Flight Training

Dr. John A. Llewellyn, 35, has withdrawn from the astronaut training program because he was having trouble learning to fly jets.

A member of the scientist-astronaut group selected in August 1967, Llewellyn has been in flight training at Reese AFB, Lubbock, Texas, since April 4, 1968. He completed the first phase of training involving 30 flying hours in the T-41A, a propeller-driven light plane and soloed in that aircraft. He had received approximately 40 hours of dual flight instruction in the T-37 jet trainer, but had not soloed.

Llewellyn said it became apparent several weeks ago that he was not progressing as he should. This week he withdrew after discussions with NASA and Air Force officials.

He said he is considering several opportunities within NASA and elsewhere.

A native of Cardiff, Wales, Llewellyn is a naturalized US citizen. He is married and has three children. He has a doctor of philosophy degree in chemistry, and prior to joining NASA, was an associate professor at Florida State University.

His departure reduces the total number of NASA astronauts to 52. Nine of the 11 scien-

tist-astronauts selected last year are now in flight training. Dr. Brian T. O'Leary, 28, withdrew April 23 because he disliked flying.

Lifting Body Nearing First Powered Flight

The HL-10 lifting body has completed a two-month period of preparation for its first rocket-propelled flight.

The HL-10 is a wingless craft under flight test by NASA for possible use as a maneuverable reentry spacecraft of the future. The HL-10 already has made nine unpowered glide flights. The research vehicle is launched from under the wing of a B-52 at 45,000 ft. altitude.

During the past two months engineers at NASA's Flight Research Center, Edwards, Calif., activated and made several ground runs of the XLR-11 rocket engine installed in the HL-10. The rocket engine and its propellant tanks were carried in the HL-10 during the glide flights for ballast purposes.

Minor changes in the control system were made while the HL-10 was grounded.

Starting within the next few days, the HL-10 is programmed to make a captive, a planned no-launch flight, several glide flights to check the control system changes, and then begin powered flight. The first rocket-propelled flight will use only two of the engine's chambers and speed brakes to limit the top speed to approximately 550 miles per hour.

Sustained Superior



George P. Demchok
MSC White Sands Test Facility

Spanish Club Sees Film on Mayans

The MSC Spanish Club September 4 will present an hour-long color film, "My People, the Mayas," which will illustrate the lost glories of the once-powerful Mayan empire of southern Mexico.

The meeting will be in Room 108 Bldg 13 at 5:15 pm.

Hess to Speak At AAS Meet

MSC Director of Science and Applications Dr. Wilmot N. Hess September 17 will speak on "Future Lunar Exploration" at the American Astronautical Society conference on advanced space exploration at Ann Arbor, Mich.

The AAS conference will run September 16-18 at the Sheraton Motor Inn Ann Arbor. Also on the program are seven other NASA speakers from NASA Headquarters, Goddard Space Flight Center, Ames Research Center and Langley Research Center.

return. That work was one of the most technically brilliant pieces of detective work in accurately reproducing and ground testing why something failed and devising a fix and demonstrating the adequacy of the fix that I have seen in many, many years."

Crew assignments for the first two Saturn V manned Apollo missions have been transposed. Apollo VIII crewmen are Frank Borman, James Lovell and William A. Anders. The prime crew originally assigned to the first Saturn V manned Apollo mission—James A. McDivitt, David R. Scott and Russell L. Schweickart—will move with LM-3 to the A/S-504 mission.